SECTION 1

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the telephone.
3. Do not use this telephone near a bathtub, wash basin, kitchen sink or laundry tub, in a wet basement, near a swimming pool or any where else there is water.
4. Avoid using a telephone (other than a cordless type) during a storm. There may be a remote risk of electrical shock from lightning.
5. Do not use the telephone to report a gas leak in the vicinity of the leak.
6. Unplug this telephone from the wall outlets before cleaning. Do not use liquid cleaners or aerosol cleaners on the telephone. Use a damp cloth for cleaning.
7. Place this telephone on a stable surface. Serious damage and/or injury may result if the telephone falls.
8. Do not cover the slots and openings on this telephone. This telephone should never be placed near or over a radiator or heat register. This telephone should not be placed in a built-in installation unless proper ventilation is provided.
9. Operate this telephone using the electrical voltage as stated on the base unit or the owner's manual. If you are not sure of the voltage in your home, consult your dealer or local power company.
10. Do not place anything on the power cord. Install the telephone where no one will step or trip on the cord.
11. Do not overload wall outlets or extension cords as this can increase the risk of fire or electrical shock.
12. Never push any objects through the slots in the telephone. They can touch dangerous voltage points or short out parts that could result in a risk of fire or electrical shock. Never spill liquid of any kind on the telephone.
13. To reduce the risk of electrical shock, do not take this phone apart. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
14. Unplug this product from the wall outlet and refer servicing to the manufacturer under the following conditions: when the power supply cord or plug is frayed or damaged; if liquid has been spilled into the product; if the telephone has been exposed to rain or water if the telephone has been dropped or the case has been damaged; if the telephone exhibits a distinct change in performance; if the telephone does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions. Improper adjustment may require extensive work by a qualified technician to restore the telephone to normal operation.
15. Never install telephone wiring during a lightning storm.
16. Never install telephone jacks in wet locations unless the jack is specifcally
designed for wet locations.
17. Never touch uninsulated telephone wires or terminals unless the tele phone line has been disconnected at the network interface.
18. Use caution when installing or modifying telephone lines.

BATTERY SAFETY INFORMATION

Dispose of used batteries according to the instructions.

1. Do not dispose of the battery in a fire as it may explode. Check with local codes for possible special disposal instructions.
2. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes and skin. It may be toxic if swallowed.
3. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conduction material may overheat and cause burns.

SECTION 2

INSTALLING YOUR XL40D

Install the backup batteries (optional) by removing the battery cover as shown in Figure 1. Connect your telephone as shown in Figure 2.

(1) Connect one end of the phone cord into the (square) **LINE** port on the back of the phone; connect the other end of the phone cord into your wall telephone outlet.

(2) Connect one end of the (curly) handset cord into the handset jack on the left side of your base; connect the other end of the handset cord into the bottom of the handset. Place handset in cradle.

(3) Connect the DC adapter cord into the (round) **DC 9V 500mA** port on the back of your phone; plug the adapter into your wall electrical outlet.

When finished, lift handset to test. If you hear a dial tone, your telephone is ready for use. If not, check all connections again.

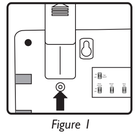


Figure 1

Remove battery cover using a thin object (like the tip of a pen) to push down the tab shown by the arrow above.

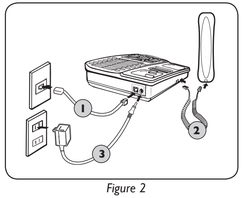


Figure 2

If there is a power outage, the XL40D will maintain its full amplification for up to 48 hours with four AA alkaline backup batteries (not included).

The phone operates as a regular phone if there is no power or backup batteries. In this case, the indicator lights, the loud ringer, the lighted keypad and the amplification will be disabled; you will still be able to make and receive phone calls, but the extra amplification will not be enganged. We recommend installing batteries if you live in an area with frequent power outages.

WALL MOUNTING YOUR XL40D

1. Pull the handset hook out of the base and reverse its position so that the hook points up and will hold the handset when you hang up. See Figure 3

2. Plug one end of the short flat telephone line cord into the jack marked LINE located on the back of the telephone. Then run the cord through the groove on the back of the phone. Insert the tabs of the mounting bracket into the slots in the back of the phone. Push the mounting bracket in and down firmly until it snaps into place. See Figure 4.

3. Plug the flat telephone line cord into the wall plate jack, then align the mounting bracket's keyhole slots with the wall plate studs and slide the base of the phone downward to secure it on the wall. See Figure 5.

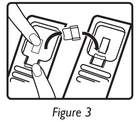


Figure 3

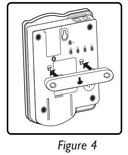


Figure 4

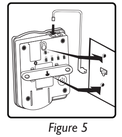
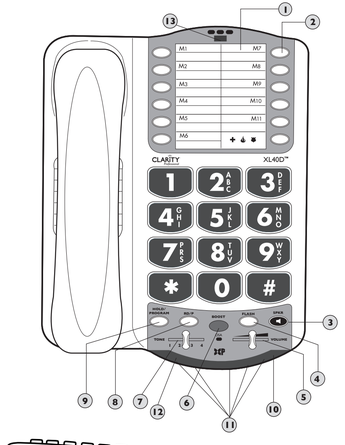
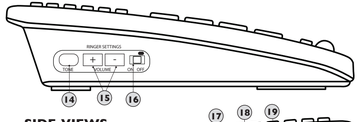


Figure 5

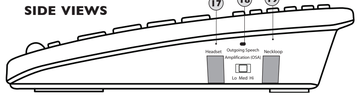
SECTION 3

FEATURE LIST AND OVERVIEW

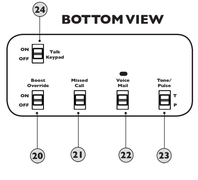




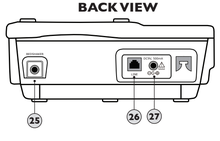
SIDE VIEWS



BOTTOM VIEW



BACK VIEW



SECTION 4

FEATURE LIST AND OVERVIEW

(1) **Phone Number Directory** use this area to write down the names of the saved memory records. Remove transparent plastic cover to reach the blank list.

(2) **Memory** Buttons (M1-M11 and Emergency): for saved numbers (see MEMORY STORAGE section for details).

(3) **SPKR** (Speaker) Button: press SPKR to engage the speakerphone function; press again to turn the feature off.

(4) **FLASH** Button: use this button to engage the Call Waiting Caller ID functions (feature provided by local phone company).

(5) **VOLUME** Slider: move to right or left in order to increase or decrease the volume of the incoming voice.

(6) **BOOST/OSA** Button: press BOOST to engage the extra amplification. In BOOST OFF mode, the phone has a volume range of up to 16dB of amplification. In BOOST ON mode, the phone has a volume range of up to 50dB of amplification. When active, the BOOST button is backlit. Press BOOST again to turn off the extra amplification. Press and hold the button for 3 seconds to engage the OSA function (to enhance the level of your voice). See OSA section for details.
NOTE: when OSA is enabled, the light at the top of the phone turns orange when the phone is in a call.

(7) **TONE** Switch: use this switch to pick one of the 4 tone setting available.

(8) **RD/P** (Redial/Pause) Button: use this button to redial the last number dialed (up to 32 digits). When in programming mode, press this button to insert a 2-second pause.

(9) **HOLD/PROGRAM** Button: during a call, use this button to put the call on hold; press the button again to release the call from hold. Use this button to program the memory keys during idle state or during a call. (see MEMORY STORAGE section for details).

(10) **Low Battery** indicator: light turns on when the backup batteries are low.

(11) **Visual Ringer** lights: lights turn on and off when the phone rings.

(12) **Missed Call** light: light turns on when there was an unanswered call. (Active when Missed Call switch is ON - located on bottom of phone).

(13) **Voice Mail/Ringer/OSA** light **a**. Light turns on **GREEN** when there is a voicemail left with your voicemail feature (from local phone company). **b**. Light turns **RED** when the ringer switch is in the OFF position. **c**. Light turns **ORANGE** when the OSA feature is active.

(14) **(Ringer) TONE** press this button to choose the desired incoming ring tonality. Choose one of the six (6) availble ring tones to select the most favorable ringer.

(15) **(Ringer) Volume +/-** press the keys to increase/decrease the volume of the incoming ring.

(16) **(Ringer) ON/OFF** Switch: use this switch to turn the ringer on or off. When the switch is set to OFF, the light at the top of the phone lights up **RED**.

(17) **Headset** port: insert a standard headset (2.5mm plug) to use instead of handset.

(18) **Outgoing Speech Amplification (OSA) switch** the switch to set the level of the outgoing speech amplification level. To enable/disable the OSA switch, press and hold the BOOST/OSA button for 3 seconds (see OSA section).

(19) **Neckloop** port: insert a standard neckloop (mono, 3.5mm plug) to use with your T-coil equipped hearing aid. We recommend the Clarity CE30 neckloop.

(20) **Boost Override** switch: set to ON if you wish for the BOOST function to be enabled at the beginning of all calls.

(21) **Missed Call** switch: set to ON if you wish to have the Missed Call light enabled.

(22) **Voice Mail** switch: set to ON if you wish for the light at the top of the phone to turn GREEN when you have a voice mail (service from your phone service provider).

(23) **Tone/Pulse** switch: set this switch to the desired dialing method.

(24) **Talk Keypad** switch: set to ON if you wish to hear the numeric keys pressed during dialing - both in handset and speakerphone modes. NOTE: "star" and "pound" keys are not spoken.

(25) **BEDSHAKER** port: insert the optional bedshaker (sold separately); it will vibrate to indicate incoming rings.

(26) **LINE port:** see **INSTALLING YOUR XL40D** section.

(27) **POWER port (9V,500mA):** see **INSTALLING YOUR XL40D** section.

SECTION 5

BOOST FUNCTION - AMPLIFY INCOMING SOUNDS

1. While on a call, press the BOOST button to engage the amplifier. The XL40D has a BOOST button that controls the loudness of the receiver. See Figure 6. Once the BOOST button is pressed, an extra level of amplification is added over the entire range of the Volume Control. During a call, the BOOST button can toggle the Clarity Power function on or off according to the user's needs. The BOOST button will reset automatically every time the phone is hung up for at least 5 seconds. The BOOST light will illuminate (blue) while the BOOST function is activated.

Warning: Volume may be at a high level. To protect hearing, lower the Clarity Power Volume Control before using the phone.

2. Adjust the VOLUME slider to achieve the desired sound level (up to 50dB of amplification). The Clarity Power Volume Control adjusts the level of volume the handset both in Boost or non-Boost modes. The volume dial provides up to 16dB of volume before the BOOST button is activated. Once the BOOST button is pressed, the XL40D will provide up to 50dB of gain. See Figure 7.

3. Adjusting the TONE switch allows you to customize your hearing experience. Since we all have different hearing preferences we suggest exploring each setting to find the one most comfortable for you. These four settings, along with our volume amplification, are part of the Digital Clarity Power (DCP™) technology. See Figure 8. The available settings are:

1- Low Frequency emphasis: best used to hear low pitched sounds;

2 - Flat frequency response: best for hearing aid users;

3 - Clarity Power/High frequency emphasis response: best used to hear high frequency sounds;

4 - Multi Band Compression with high frequency emphasis response: best setting for speech intelligibility.

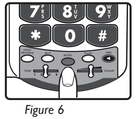


Figure 6

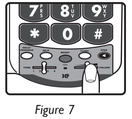


Figure 7

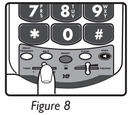


Figure 8

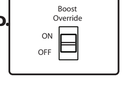
NOTE: Boost button is not active in speakerphone mode.

Boost Override

On the bottom of the XL40D, there is a Boost Override switch. When this is set to "ON" the Boost function is automatically enabled every time the phone is picked up. In standard use, when the Boost Override switch is set to "OFF" the Boost function will turn off after the phone is hung up. Setting this switch to "ON" is suggested if all the users of the phone need the amplification. Setting this switch to "OFF" is useful when people with varying hearing ability use the phone. See Figure 9.

Figure 9

WARNING: VOLUME MAY BE LOUD. PROCEED WITH CARE.



SECTION 6

MEMORY STORAGE

1. Press and hold the desired memory location (M1-M11 and Emergency) to store the number to. The phone will beep to confirm you are in memory programming mode. See Figure 10.

2. Enter the telephone number you wish to store (up to 31 digits). If no button is pressed within 30 seconds, the phone will time out and goes back to idle or talk mode.

3. Press the Hold/Program button to save the desired number. The phone will beep to confirm the number has been saved. See Figure 11.

4. To change a Memory location, reprogram using the same procedure with the button to be changed.

Figure 10

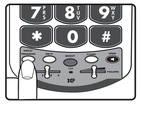


Figure 11

To dial the saved numbers:

1. In handset mode, lift the handset and press the appropriate memory button.

2. In speakerphone mode, press the appropriate memory button with the handset in the cradle.

OUTGOING SPEECH AMPLIFICATION (OSA)

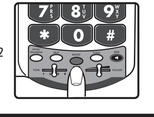
This function amplifies your speech so it becomes louder to the person on the other end of the call. To enable this function, press and hold the BOOST/OSA button for 3 seconds (see figure 12). The phone beeps; the function can be enabled/disabled while on a phone call or in standby mode.

To verify the function is active, lift the handset and check the light at the top of the phone. If the light is ORANGE, the function is active. To adjust the level of amplification for your voice, use the switch on the side of the phone labeled Outgoing Speech Amplification (OSA). You can choose between three levels: Low, Med and High (see Figure 13).

To return to the default setting for your voice volume level, press and hold the BOOST/OSA button again for 3 seconds. You will hear a beep confirming that the function is disabled. To verify, the light at the top of the phone should not be orange when you are on a phone call.

NOTE: In order to experience the best audio quality for both parties during a call, we recommend you turn on this function ***only*** if your voice is too quiet. OSA is not active in speakerphone mode.

Figure 12



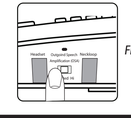


Figure 13

TECHNICAL INFORMATION

Amplified dB Level 50dB/124 dBSPL

Tone control range full range: 300 to 3000Hz using one slide control.

Dimensions
Size: 9 1/2" x 7" x 3 1/4" (24.13cm x 17.78cm x 8.25cm)
Weight: 2.52 lbs. (1.14 kg)

Power Requirements
DC Adapter: 9VDC, 500 mA
Batteries: 4 AA alkaline batteries (not included)